

WORK EXPERIENCE

[Gemini](#) | Blockchain Engineer, Smart Wallet & Prediction Markets, 2024-Present

Led smart contract and SDK development for [Horizon Smart Wallet](#), a production ERC-7579 modular smart account with passkey-based signing across web and mobile.

Integrated open ERC standards across smart wallet architecture, including ERC-7579 modular accounts, ERC-4337-style account abstraction flows, ENS naming, and ERC-7978 ownership design.

Shipped wallet and onchain hub infrastructure across Solidity contracts, TypeScript SDKs, signing flows, WalletConnect integrations, product UX, and third-party app surfaces.

Worked on GUSD and tokenization-adjacent market infrastructure, connecting stablecoin settlement, onchain market access, and regulated product requirements.

Applying wallet, identity, attestation, and settlement architecture to prediction-market and onchain systems with a regulated exchange perspective.

Represented Gemini Wallet as an ETH NYC speaker and hosted a sponsor hackathon on behalf of Gemini Wallet.

[Paymagic Labs](#) | Founding Engineer, 2022-2024

Founding engineer at seed-stage crypto payments startup backed by Ethereum, 1kx, Blocktower, and Pillar Ventures.

Built Safe-based payment infrastructure, including automated payout modules, transaction encoding, and deployment tooling for more than 1,000 multisig wallets across 6 chains.

Led frontend/API work for [Dustsweeper](#), a small-balance DEX that has processed **65+ ETH** in volume.

Built [Patch Wallet](#) SDK/PWA, an early social account-abstraction wallet with **400k+** wallets deployed.

[Validity.id](#) | Co-founder, 2023-2024

Startup with \$5M Valuation seed round from [Maven Ventures](#)

Blockchain-based academic credential verification system

- Sole blockchain engineer for on-chain zero knowledge proof contract factories
- Led development of secure full-stack solution for diploma contract deployment and data encoding
- Worked with Duke Registrar Office to create battle-tested systems to issue and verify diploma credentials
- Implemented production-ready system encoding and passing diploma data for Duke University and Rice University graduates on-chain
- The [Validity Registry](#) allows alums and external institutions to instantly validate Duke credentials at Duke registrar website from 2007 onward.

[CollegeFork](#) | Founder & CEO, 2016 – 2019

Education platform simplifying college application process

- Secured funding from [MIT Launch](#) program
- Developed algorithms for customized college ranking and [matching algorithms](#)
- Created user-friendly UI with self-developed JavaScript framework and Python backend

EDUCATION

[Duke University](#) | Durham, NC

MEng, Financial Technology, Pratt School of Engineering

BS, Economics, Trinity College of Arts and Science

BA, German, Trinity College of Arts and Science

[Verify with proof link](#)

Hackathon Wins

2022 ETH Denver Hackathon Winner, No.1 Voted Project | [Dustsweeper](#)

2022 ETH-Online Winner, Most Innovative Project | [Patch Wallet](#)

2024 ETH-Online Winner | [Viral.games](#)

TEACHING & MENTORSHIP EXPERIENCE

[ETH Denver 2024 & 2025](#) | Mentor, 2024, 2025

Conducted blockchain and full-stack development workshops

Provided one-on-one assistance to teams, helping resolve technical issues

[TechX Academy](#) | Lecturer / Student Academic Lead, Summers 2019-2021

Taught Full-Stack Web Development, covering modern dev stack, history, and working mechanisms

Collaborated with MIT Media Lab professors on human-computer interaction courses

Developed TechX cloud platform with internal communication, version control, and file sharing capabilities

Duke University | Guest Lecturer, Consultant, Tech Consultant at OIT Innovation Co-Lab, 2018-2022

Led programming seminars and office hours for student developers

Guest lectured on Web Development for deploying web applications and FinTech Blockchain for smart contract development; consulted on Data Structure and Software Engineering projects

Managed development of educational tools including chat servers and web-based code editors, and managed ruby-on-rails backend for school services at OIT Co-Lab

Organized coding bootcamps covering Command-Line, React, and Node.js

Other PROJECTS

Viral.games A Prediction Market for Social Media. Bet on what goes viral on X, YouTube, and Farcaster.

Implemented cron jobs and webhooks for real-time bet processing based on social media interactions

usr.id Off-chain/cross-chain resolver for ENS

Deployed standalone CCIP server for cross-chain resolution

Implemented username and domain registration/resolving for multiple projects, including Linea Domains

Degen.game Novel web3 social games for the farcaster ecosystem

Shipped farcaster client specialized for frames and games with PWA and native support

Created and launched multiple seasons of frame based games on farcaster, with thousands of active users

Telegram and Discord bot development with autoreply and mini games

Multiple contracting work for clients, Modern Responsive Website with CMS based on JAM stack

Ticketing service and E-Commerce web app with WeChat integration

End-to-end encrypted instant messenger

Private git and personal web drive service on homelab server, deployed on *.lxc.xyz domain

SKILLS

Blockchain Development

Smart contract development and deployment (ERC-4337, multi-chain entry point contracts)

Experienced in Hardhat, Foundry, Viem, web3.js, and ethers.js

ENS, Safe, and CCIP integration

Blockchain transaction encoding/decoding

SDK development for blockchain wallets

Full-Stack Web Development

Integration of blockchain functionality into web applications

Backend: Node.js, Deno, Bun, Ruby on Rails, API aggregation and endpoint development

Frontend: HTML, CSS, JavaScript (ES-Next), React, Next.js, Vue.js, Svelte, Tailwind, Astro

Database: MySQL, MongoDB, PostgreSQL, modern ORMs, supabase, convex

System Administration DevOps

Linux server management, experience with bare metal, cloud (VPS and EC2), and container deployment;

Experienced with serverless and creating CI/CD pipelines, worked with AWS (CDK), Vercel, pipedream and Railway in production environments under stress, had exposure to Azure, Google Cloud, Aliyun, and other cloud providers

Deployment and maintenance of various services including G-Suite, E-Commerce platforms, and private cloud solutions

Additional Skills

Proficient in Figma, Sketch, Adobe XD, Illustrator, Photoshop,

Experience in designing user-friendly interfaces for blockchain applications

Version control (Git), development environment optimization, video editing, hardware repair and customization

LANGUAGES

Mandarin (fluent), English (fluent), German (Conversational)

INTERESTS

Philosophy of Economics, CLI and dev environment optimization, Cultural Exploration and Traveling, Innovative Learning Approaches